

Title (en)

A STERILIZABLE CULTIVATION SYSTEM WITH SEPARATELY ATTACHABLE MICROFILTRATION MEMBRANE

Title (de)

STERILISIERBARES ZUCHTSYSTEM MIT GETRENNT ANBRINGBAREN MIKROFILTRATIONSMEMBRAN

Title (fr)

SYSTEME DE CULTURE POUVANT ETRE STERILISE A MEMBRANE DE MICROFILTRATION CAPABLE D'ETRE FIXEE LIBERABLE

Publication

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Application

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Abstract (en)

[origin: WO0023331A2] A sterilizable cultivation system is provided for growing selected organisms for use in biological applications and the cultivation edible fungi. A sealable, sterilizable container holds a growth substrate in a sterile condition. A separate, adhesive vent filter is provided, which is adhereable to a vent opening in the container. The vent filter is gas permeable and allows gas exchange between the interior of the container and the ambient environment, but prevents the passage of microbes and other organisms into or out of the container. This gas exchange prevents excess carbon dioxide from accumulating in the container and allows necessary oxygen into the container in order to maintain an appropriate growth environment for the selected organisms. The vent filter may be combined with the container (a) during manufacture of new containers, or (b) in the field by the end-user on new containers or on re-cycled containers. The separately provided vent filters allow the end-user to adjust certain parameters of the growth environment within the container in the field. This is accomplished by adjusting the venting characteristics of the cultivation system, by increasing or reducing the amount and quality of the vent filters on the container.

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